

# Ocean Planning and the Maritime Industry

Inter-American Committee on Ports  
6.18.14





# National Ocean Policy: Executive Order 7.19.10

**Support sustainable uses**



# BIG PICTURE (Gulf Coast)



# COORDINATION

## National Ocean Council





7.19.10

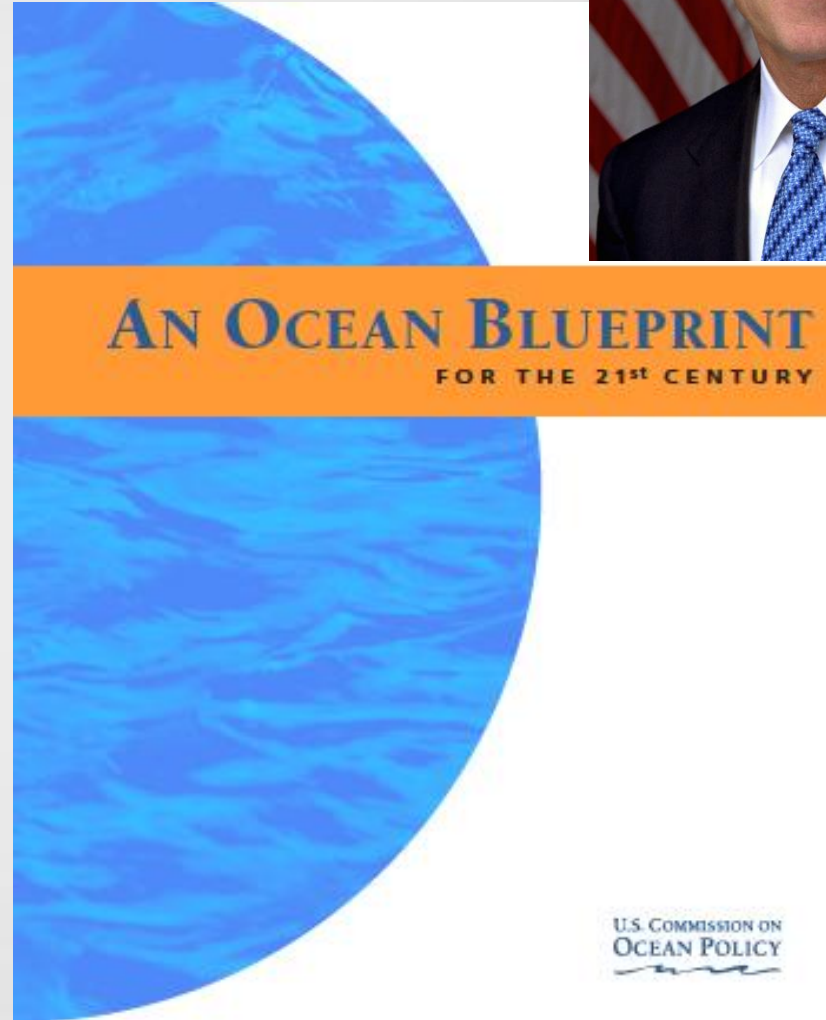


THE WHITE HOUSE COUNCIL ON ENVIRONMENTAL QUALITY

*Final Recommendations  
Of The  
Interagency Ocean Policy  
Task Force  
July 19, 2010*



7.22.04





7.19.10



THE WHITE HOUSE COUNCIL ON ENVIRONMENTAL QUALITY

# Framework for Coastal and Marine Spatial Planning

For Immediate Release

July 19, 2010

## EXECUTIVE ORDER

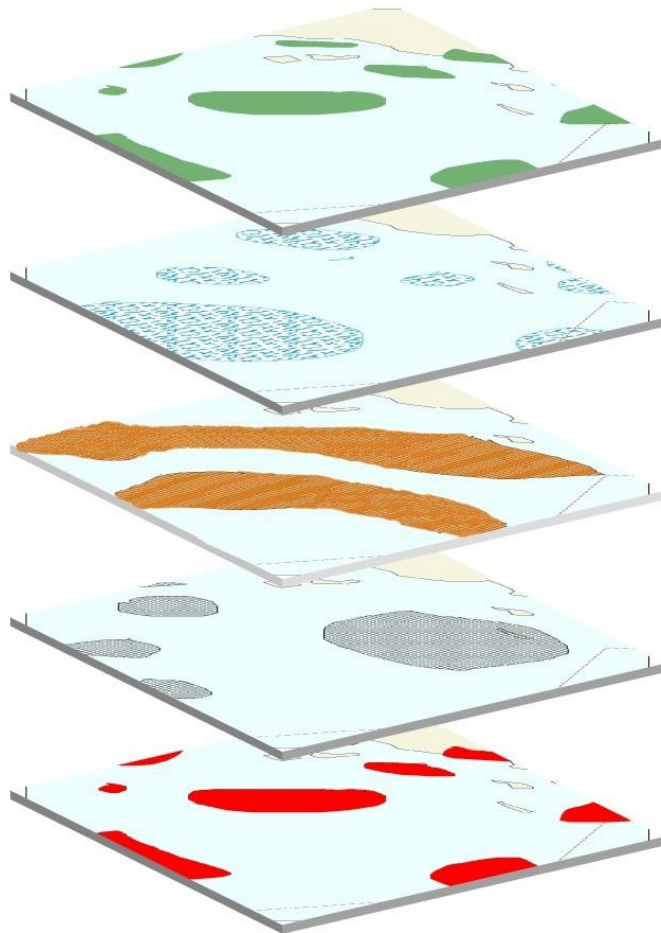
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### STEWARDSHIP OF THE OCEAN, OUR COASTS, AND THE GREAT LAKES

By the authority vested in me as President by the Constitution and the laws of the United States of America, it is hereby ordered as follows:

# Smart Ocean Planning

## SCIENCE-BASED



**Conservation**



**Energy Uses**



**Shipping**



**Recreation**



**Offshore Aquaculture**



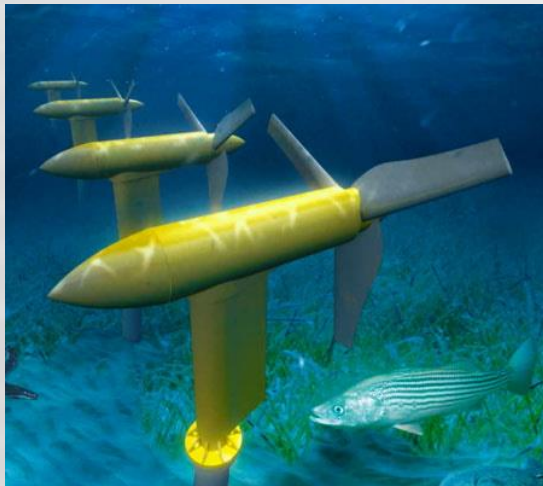
# Stakeholder Engagement



# Proactive Planning to Reduce Conflicts



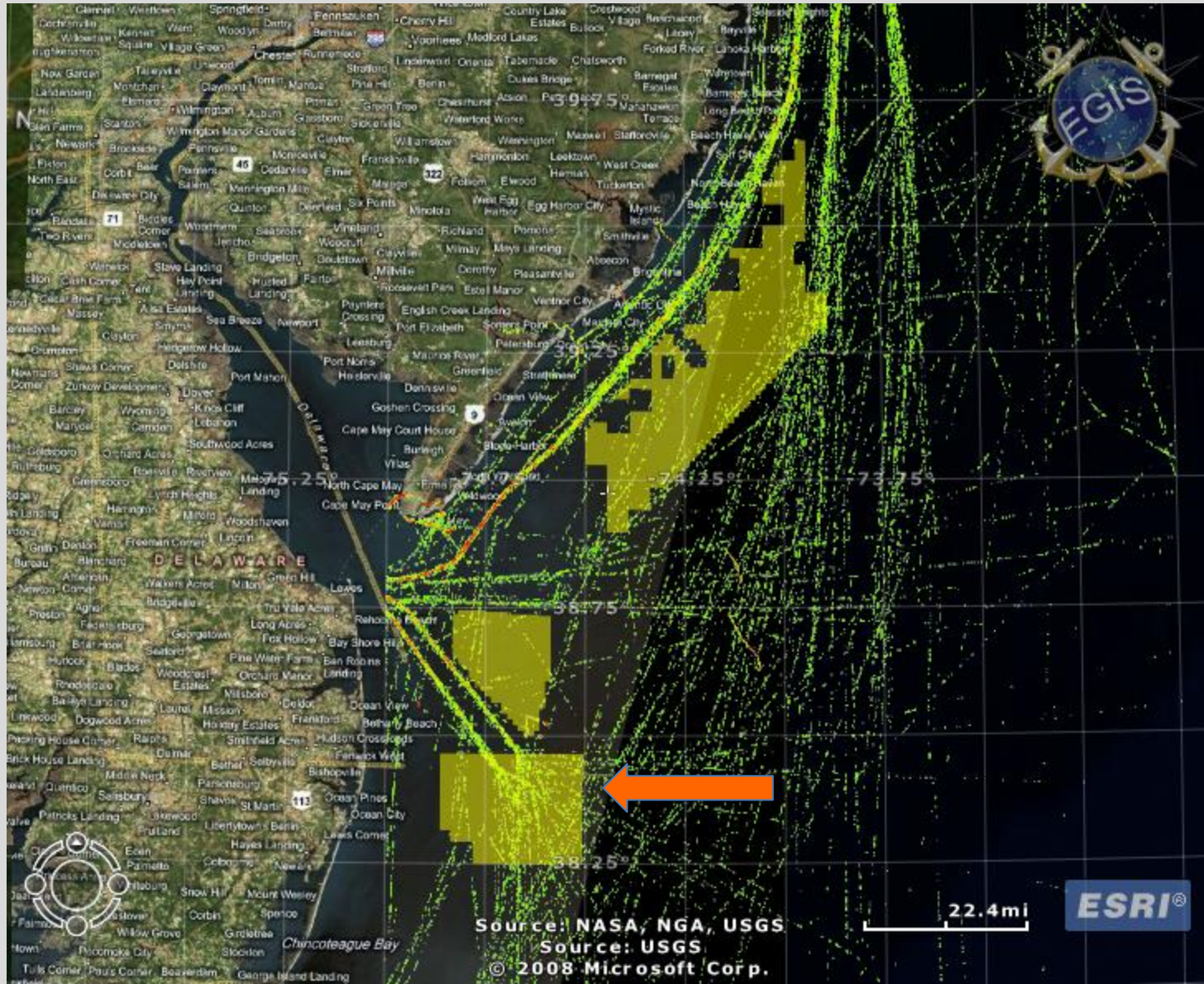
Use-Use  
Conflicts



Use-Environment  
Conflicts



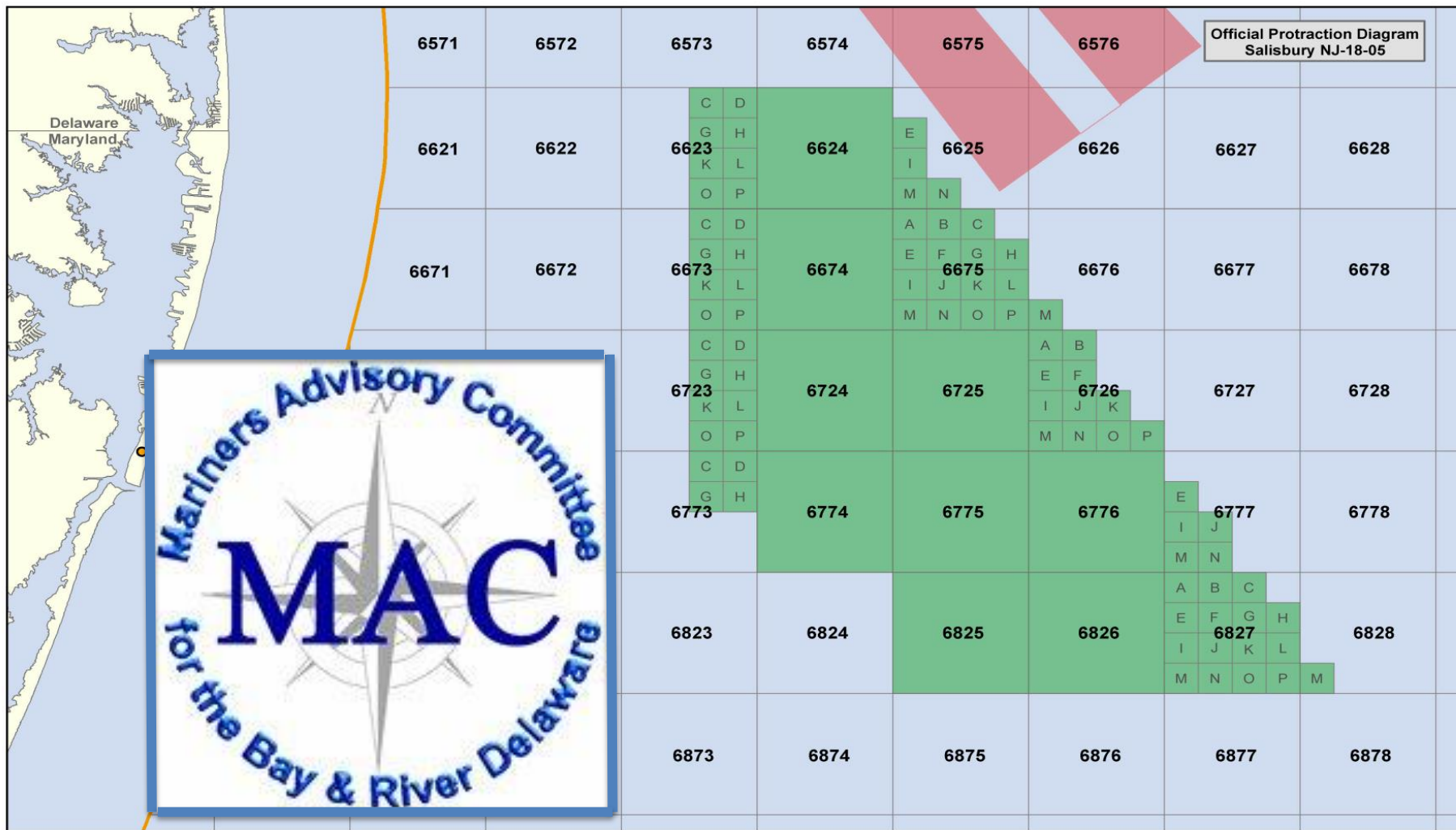
# 2010 Smart from the Start WEAs and Shipping Data



# Mariners Advisory Committee



# 2012 BOEM Maryland Call for Information Area



- Fed/State Boundary
- Traffic Separation Scheme
- Maryland Call Area
- OCS Lease Blocks
- Official Protraction Diagram




# Rhode Island Ocean Special Area Management Plan (SAMP)

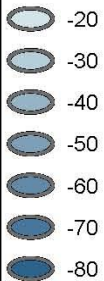
71°50'W 71°40'W 71°30'W 71°20'W 71°10'W 71°0'W 70°50'W

## Map Key

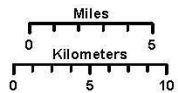
 Proposed Ocean Study Area

 State/Federal Waters Separation

### Bathymetry (m)



41°30'N  
41°20'N  
41°10'N  
41°0'N





Coordinate System:  
Projection: R1 Stateplane  
Units: Feet  
FIPS Zone: 3800  
Datum: NAD83

For Project Map and Data Products:  
[http://www.narrabay.org/d\\_projects/oceansamp](http://www.narrabay.org/d_projects/oceansamp)














**Goals:**  
**Wind Development**  
**Conservation**

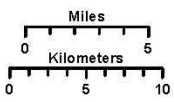
# Rhode Island Ocean Special Area Management Plan (SAMP)

## Map Key

-  Proposed Ocean Study Area
-  State/Federal Waters Separation

## Wind at 80m Interpolated

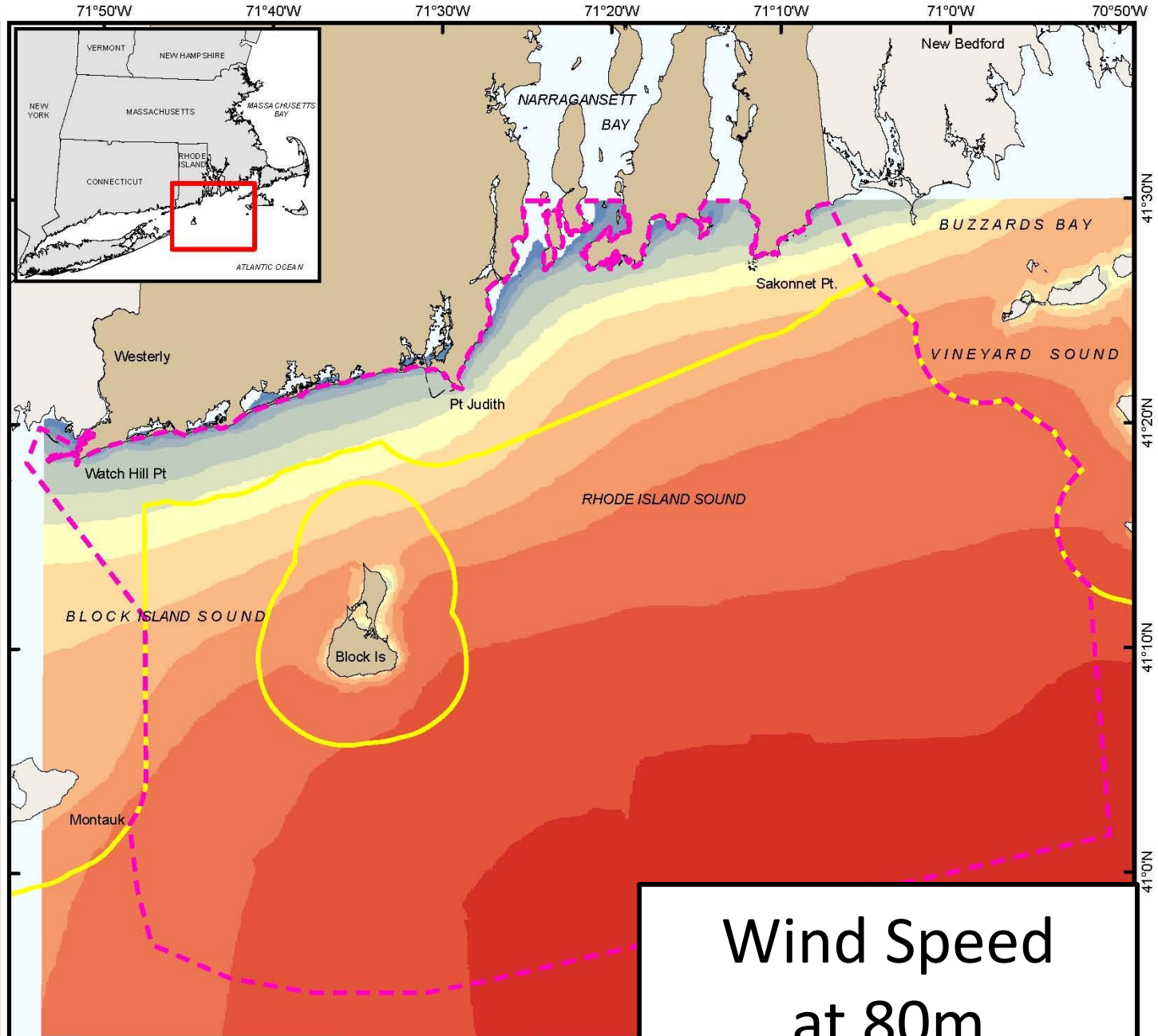
-  7.0
-  7.2
-  7.4
-  7.6
-  8.0
-  8.2
-  8.4
-  8.6
-  8.8
-  9.0
-  9.2
-  9.4
-  9.6



Coordinate System:  
 Projection: RI Stateplane  
 Units: Feet  
 FIPS Zone: 3800  
 Datum: NAD83

For Project Background Information:  
<http://seagrant.gso.un.edu/oceansamp>

For Project Map and Data Products:  
[http://www.narrbay.org/d\\_projects/oceansamp](http://www.narrbay.org/d_projects/oceansamp)



# Wind Speed at 80m

# Rhode Island Ocean Special Area Management Plan (SAMP)

71°50'W 71°40'W 71°30'W 71°20'W 71°10'W 71°0'W 70°50'W

**Map Key**

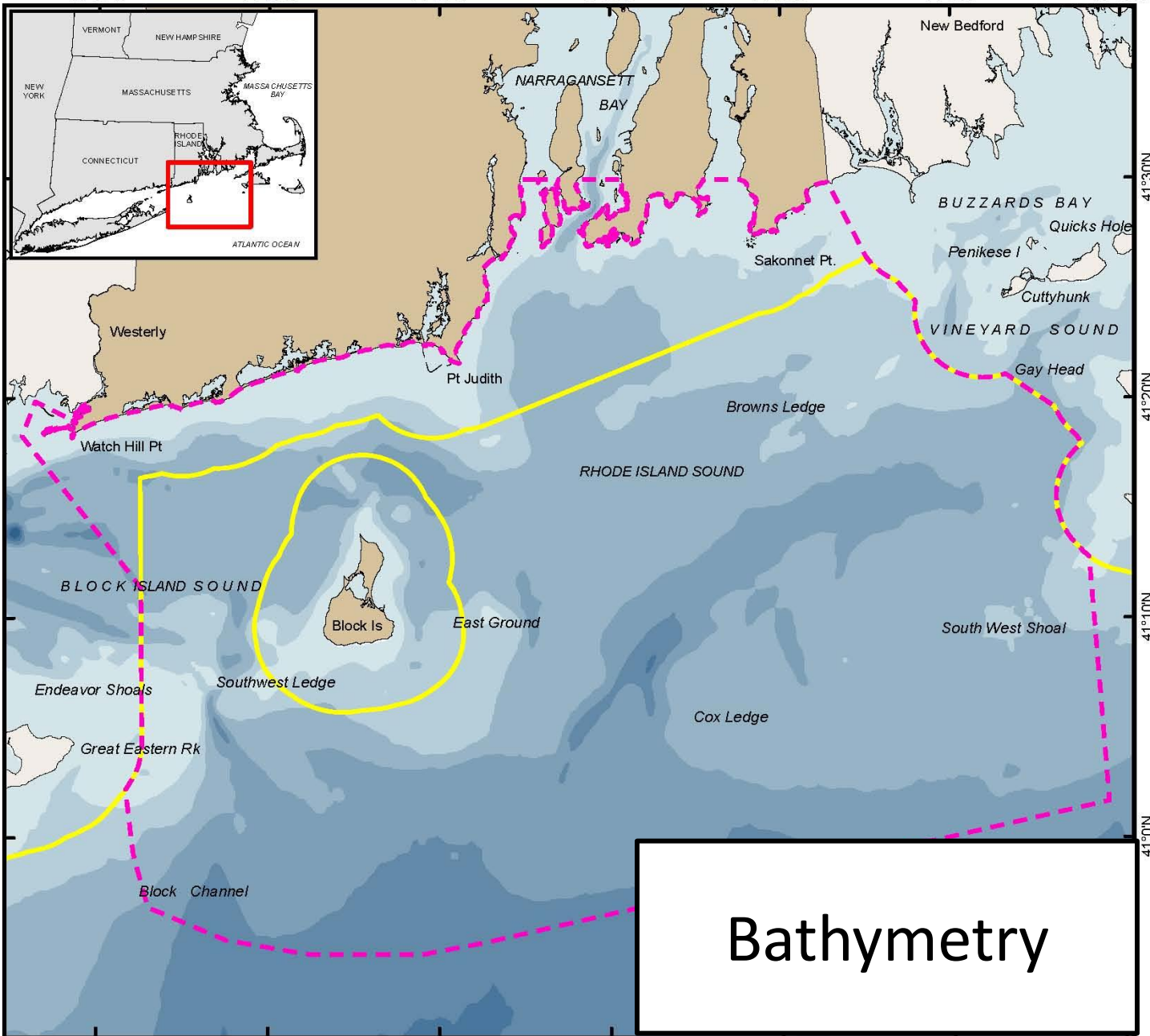
- Proposed Ocean Study Area
- State/Federal Waters Separation

**Bathymetry (m)**

- 20
- 30
- 40
- 50
- 60
- 70
- 80

Coordinate System:  
 Projection: R1 Stateplane  
 Units: Feet  
 FIPS Zone: 3800  
 Datum: NAD83

For Project Map and Data Products:  
[http://www.narrbay.org/d\\_projects/oceansamp](http://www.narrbay.org/d_projects/oceansamp)





41°30'N  
41°20'N  
41°10'N  
41°0'N



# Rhode Island Ocean Special Area Management Plan (SAMP)

71°50'W 71°40'W 71°30'W 71°20'W 71°10'W 71°0'W 70°50'W

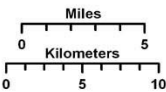
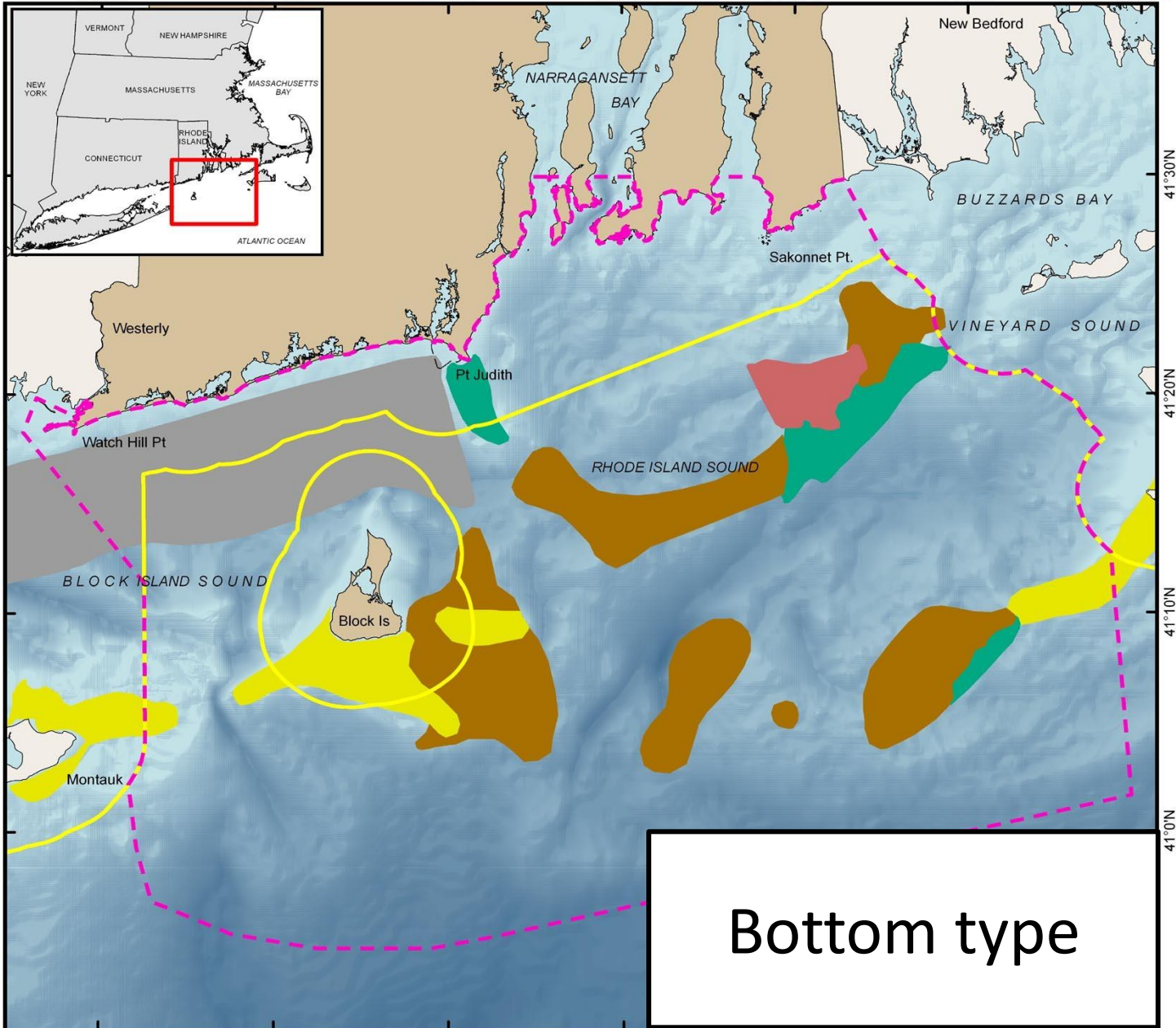
## Map Key

-  Proposed Ocean Study Area
-  State/Federal Waters Separation

## Glacial Geology

Stone-Borns 1986

-  Glacial Lakefloor
-  End Moraine - Blocky
-  End moraine - Boulder
-  End moraine - Bold., Cob., Sand
-  Tertiary Manetto Gravel



Coordinate System:  
 Projection: RI Stateplane  
 Units: Feet  
 FIPS Zone: 3800  
 Datum: NAD83




For Project Background Information:  
<http://seagrant.gso.uri.edu/oceansamp>

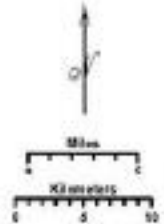
For Project Map and Data Products:  
[http://www.narrbay.org/d\\_projects/oceansamp](http://www.narrbay.org/d_projects/oceansamp)

**Bottom type**

# Rhode Island Ocean Special Area Management Plan (SAMP)

**Map Key**

-  OceanSAMP Study Area
-  State Waters
-  Bathymetry, 5-20 m

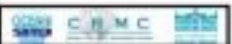
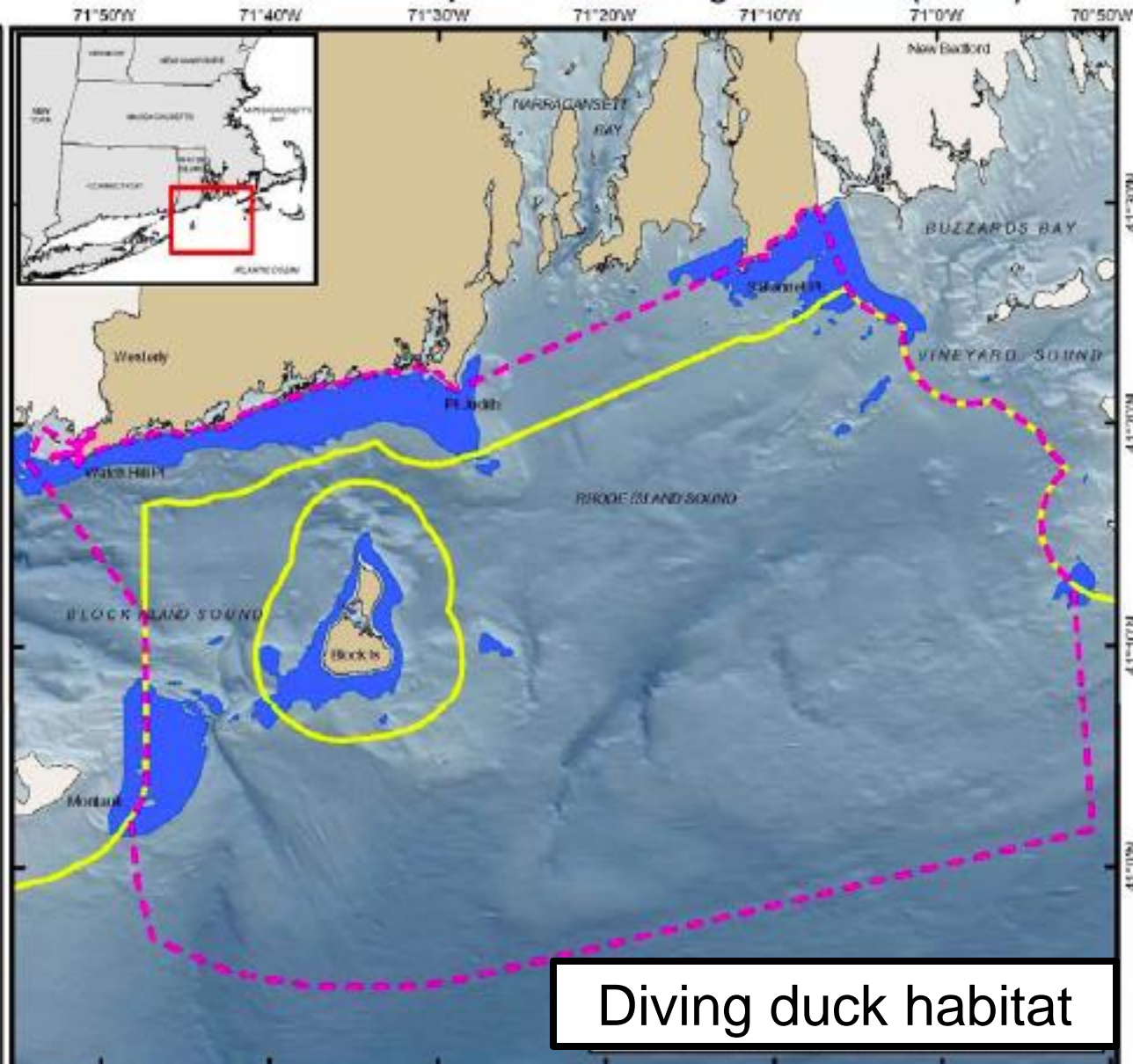


Coordinate System:  
 Projection: RI Stateplane  
 Units: Feet  
 FRS Zone: 3800  
 Datum: NAD83

Map Data Date:  
 State Borders: RIOS, MWIS, CIOIS  
 SAMP Study Area: RI SAMP Database  
 State Waters: MWIS OLA Boundary  
 Bathymetry: Interpolated from HD 5 Soundings

For Project Background Information:  
<http://www.ri.gov/online/editions/samp>

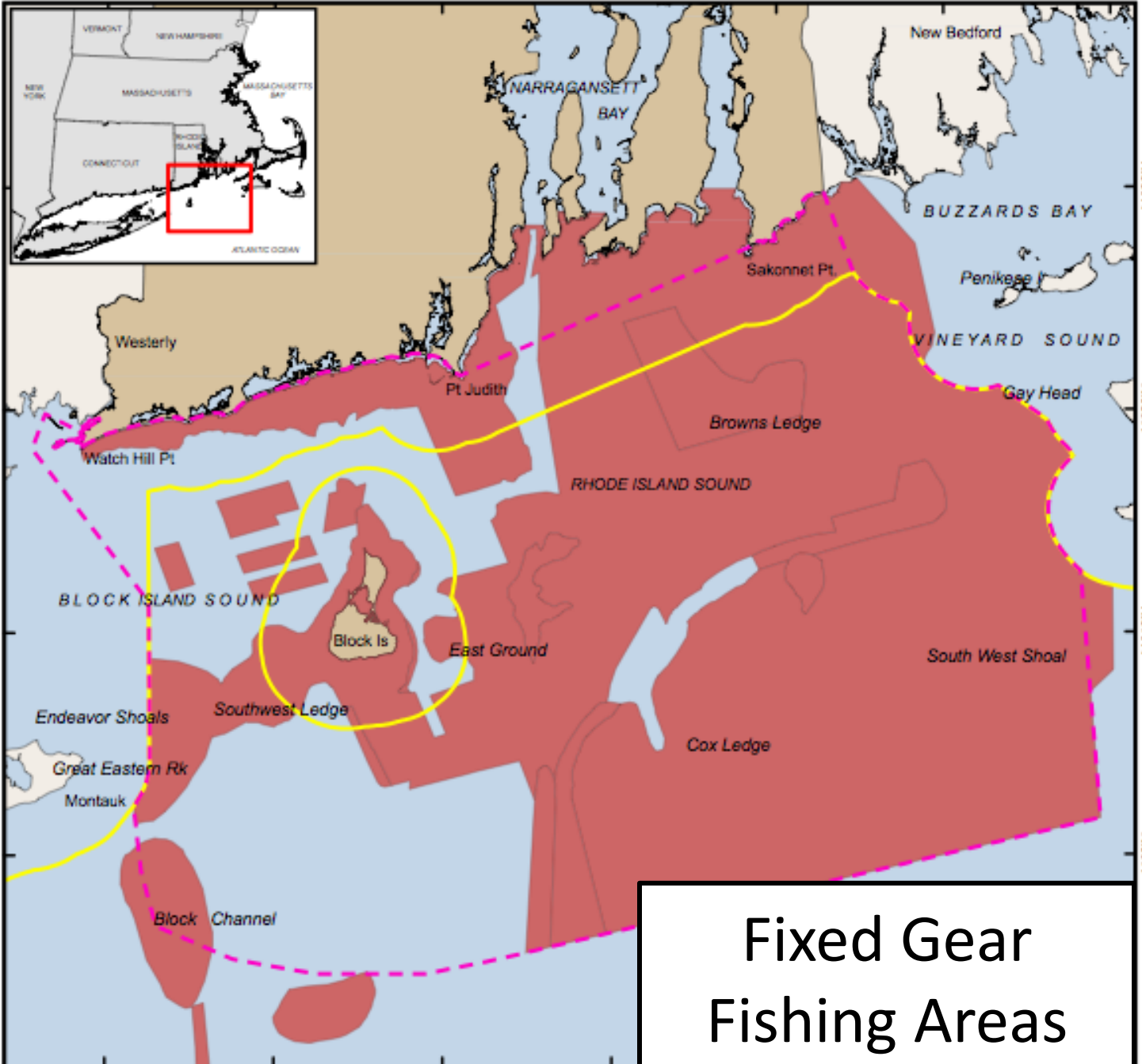
For Project Map and Data Product:  
<http://www.marbay.org/projects/oceansamp>

Diving duck habitat

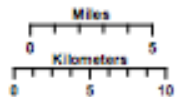
# Rhode Island Ocean Special Area Management Plan (SAMP)

71°50'W 71°40'W 71°30'W 71°20'W 71°10'W 71°0'W 70°50'W



## Map Key

- OceanSAMP Study Area
- State Waters
- Fisheries, Fixed Gear



Coordinate System:  
Projection: RI Stateplane  
Units: Feet  
FIPS Zone: 3800  
Datum: NAD83

Map Base Data:  
State Borders: RIGIS; MAGIS; CTGIS  
SAMP Study Area: RI SAMP Database  
State Waters: MMS SLA Boundary  
Bathymetry: Interpolated from NOS Soundings

For Project Background Information:  
<http://seagrant.gso.uri.edu/oceansamp>

For Project Map and Data Products:  
[http://www.narrbay.org/id\\_projects/oceansamp](http://www.narrbay.org/id_projects/oceansamp)






Fixed Gear  
Fishing Areas

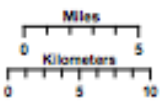
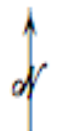
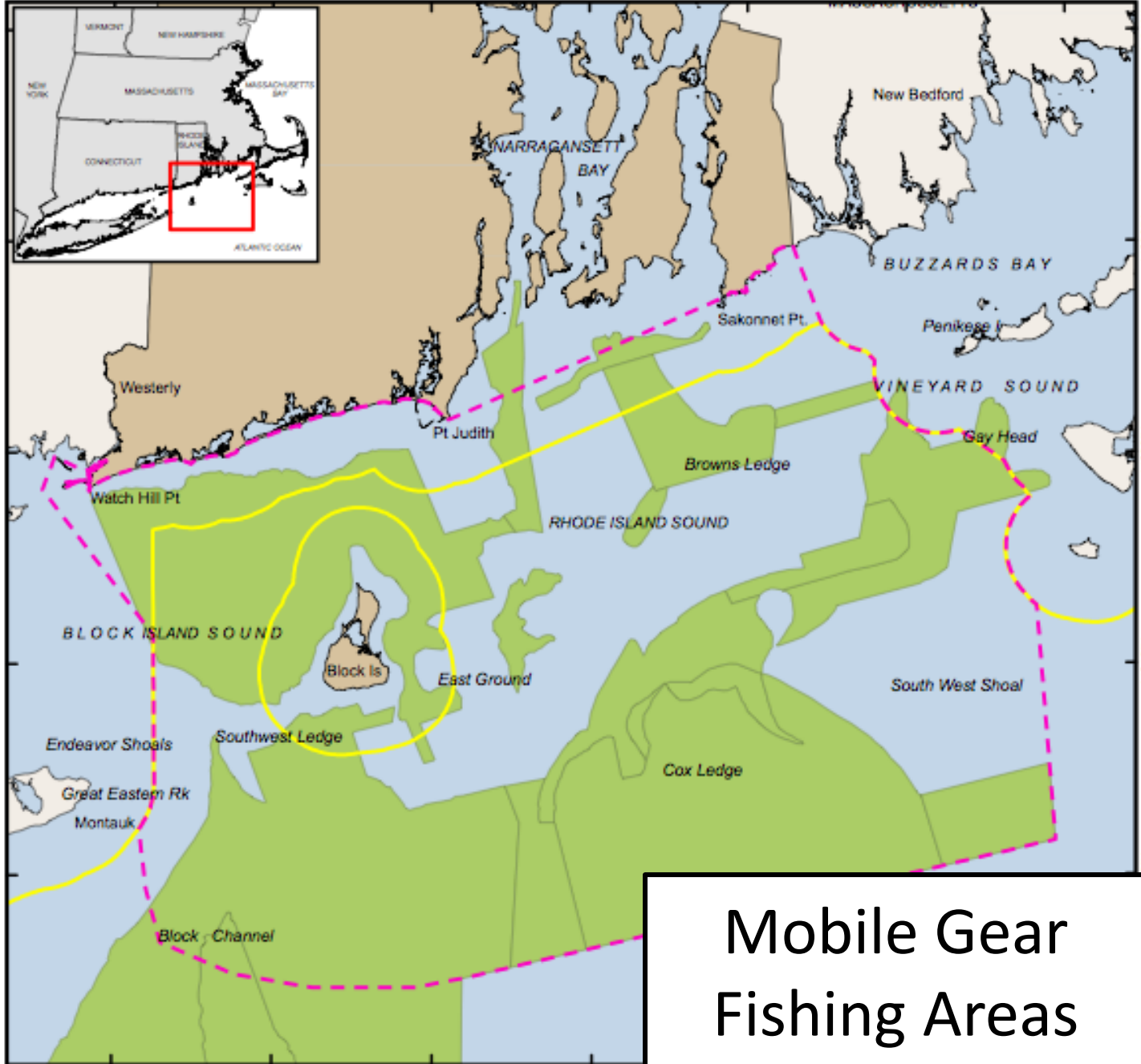
# Rhode Island Ocean Special Area Management Plan (SAMP)

71°50'W 71°40'W 71°30'W 71°20'W 71°10'W 71°0'W 70°50'W

41°40'N  
41°30'N  
41°20'N  
41°10'N  
41°0'N

## Map Key

-  OceanSAMP Study Area
-  State Waters
-  Fisheries, Mobile Gear



Coordinate System:  
Projection: RI Stateplane  
Units: Feet  
FIPS Zone: 3800  
Datum: NAD83

Map Base Data:  
State Borders: RIGIS; MAGIS; CTGIS  
SAMP Study Area: RI SAMP Database  
State Waters: MMS SLA Boundary  
Bathymetry: Interpolated from NOS Soundings

For Project Background Information:  
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For Project Map and Data Products:  
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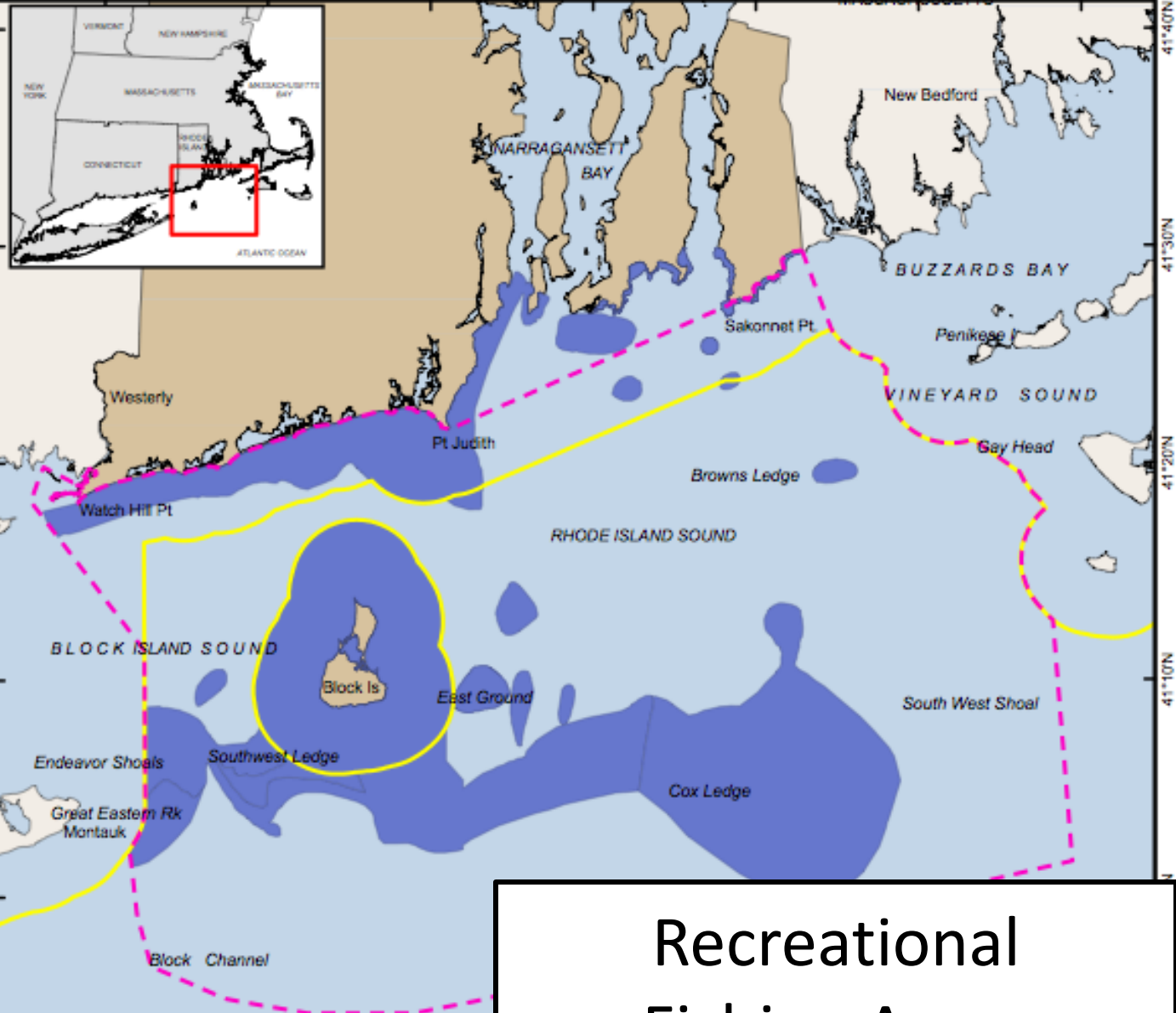
# Mobile Gear Fishing Areas

# Rhode Island Ocean Special Area Management Plan (SAMP)

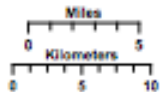
71°50'W 71°40'W 71°30'W 71°20'W 71°10'W 71°0'W 70°50'W

## Map Key

-  OceanSAMP Study Area
-  State Waters
-  Fisheries, Recreational



41°40'N  
41°30'N  
41°20'N  
41°10'N



Coordinate System:  
 Projection: RI Stateplane  
 Units: Feet  
 FIPS Zone: 3800  
 Datum: NAD83

Map Base Data:  
 State Borders: RIGIS; MAGIS; CTGIS  
 SAMP Study Area: RI SAMP Database  
 State Waters: MMS SLA Boundary  
 Bathymetry: Interpolated from NOS Soundings

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<http://seagrant.gso.uri.edu/oceansamp>






For Project Map and Data Products:  
[http://www.narrbay.org/ri\\_projects/oceansamp](http://www.narrbay.org/ri_projects/oceansamp)

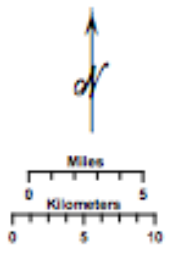
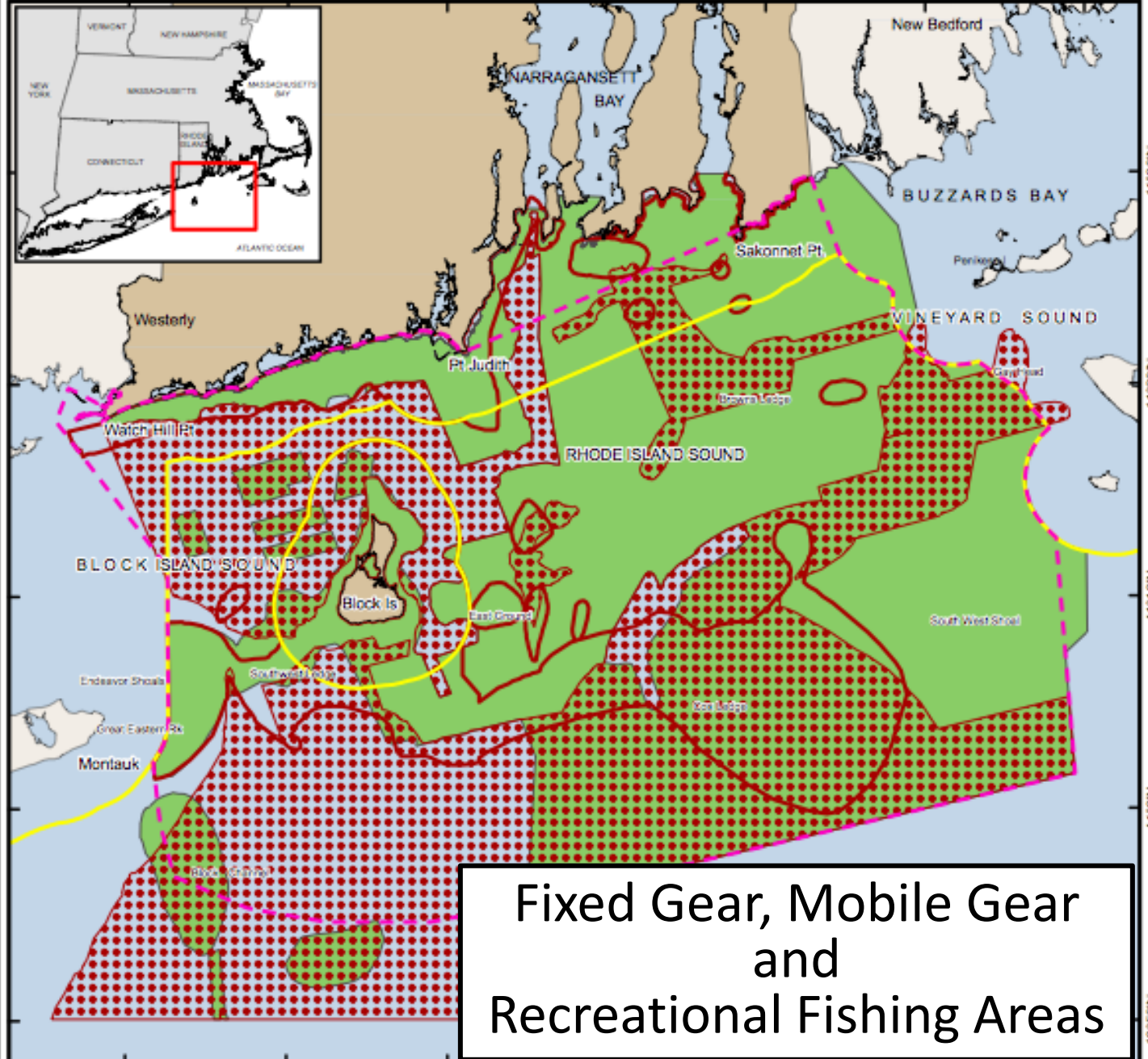
Recreational  
Fishing Areas

# Rhode Island Ocean Special Area Management Plan (SAMP)

71°50'W 71°40'W 71°30'W 71°20'W 71°10'W 71°0'W 70°50'W

## Map Key

-  OceanSAMP Study Area
-  State Waters
- Fisheries**
-  Fixed Gear
-  Mobile Gear
-  Recreational



Coordinate System:  
 Projection: RI Stateplane  
 Units: Feet  
 FIPS Zone: 3800  
 Datum: NAD83

Map Base Data:  
 State Borders: RIGIS; MAGIS; CTGIS  
 SAMP Study Area: RI SAMP Database  
 State Waters: MMS SLA Boundary  
 Bathymetry: Interpolated from NOS Soundings

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For Project Map and Data Products:  
[http://www.nantbay.org/ri\\_projects/oceansamp](http://www.nantbay.org/ri_projects/oceansamp)

Fixed Gear, Mobile Gear  
 and  
 Recreational Fishing Areas

41°30'N  
41°20'N  
41°10'N  
41°0'N  
40°50'N

# Rhode Island Ocean Special Area Management Plan (SAMP)

71°50'W 71°40'W 71°30'W 71°20'W 71°10'W 71°0'W 20°50'N






## Map Key

 OceanSAMP Study Area

 State/Federal Waters

 ENC Navigation Area

Automatic Identification System (AIS) Vessel Counts

-  50 - 100
-  101 - 200
-  251 - 500
-  501 - 1000
-  >1000



Coordinate System

Projection: UTM

Units: Feet

Zone: 18N

Datum: NAD83

Map Date: 2015

Scale: 1:50,000

Map Date: 2015

Map Date: 2015

Map Date: 2015

Map Date: 2015

Map Date: 2015

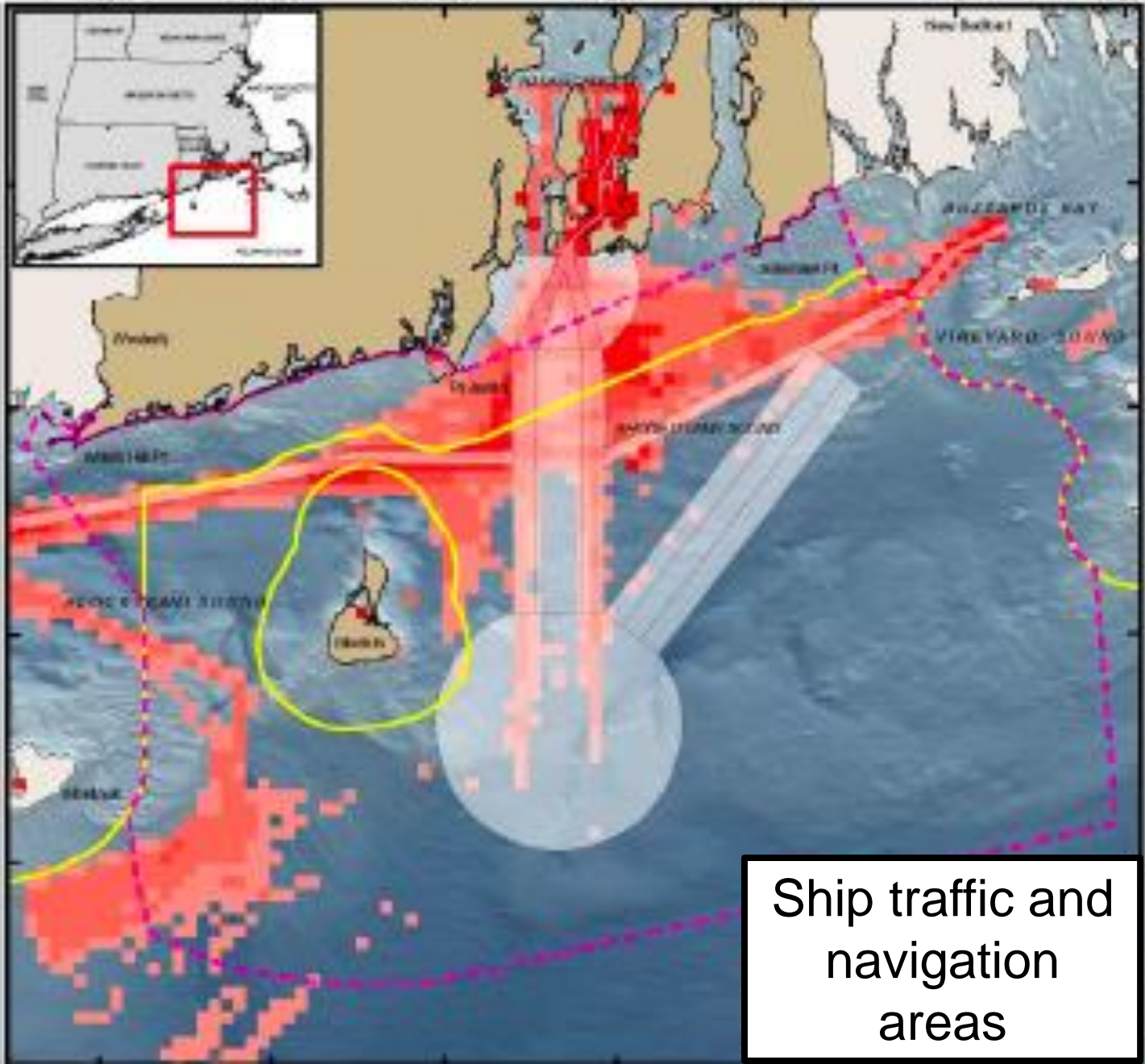
Map Date: 2015

Map Date: 2015

Map Date: 2015

Map Date: 2015

Map Date: 2015



Ship traffic and navigation areas



# Rhode Island Ocean Special Area Management Plan (SAMP)

71°50'W 71°40'W 71°30'W 71°20'W 71°10'W 71°0'W 70°50'W

**Map Key**

- OceanSAMP Study Area
- State Federal Waters
- Dredge Disposal and Unexploded Ordnance

**Underwater Cables**

**AT&T Cables**

- TAT 12/13 Interlink
- TAT 10 - Inactive
- TAT 12
- TAT 6 - Inactive

**Reliance Globalcom**

- FA-1 North

**Verizon**

- CB-1

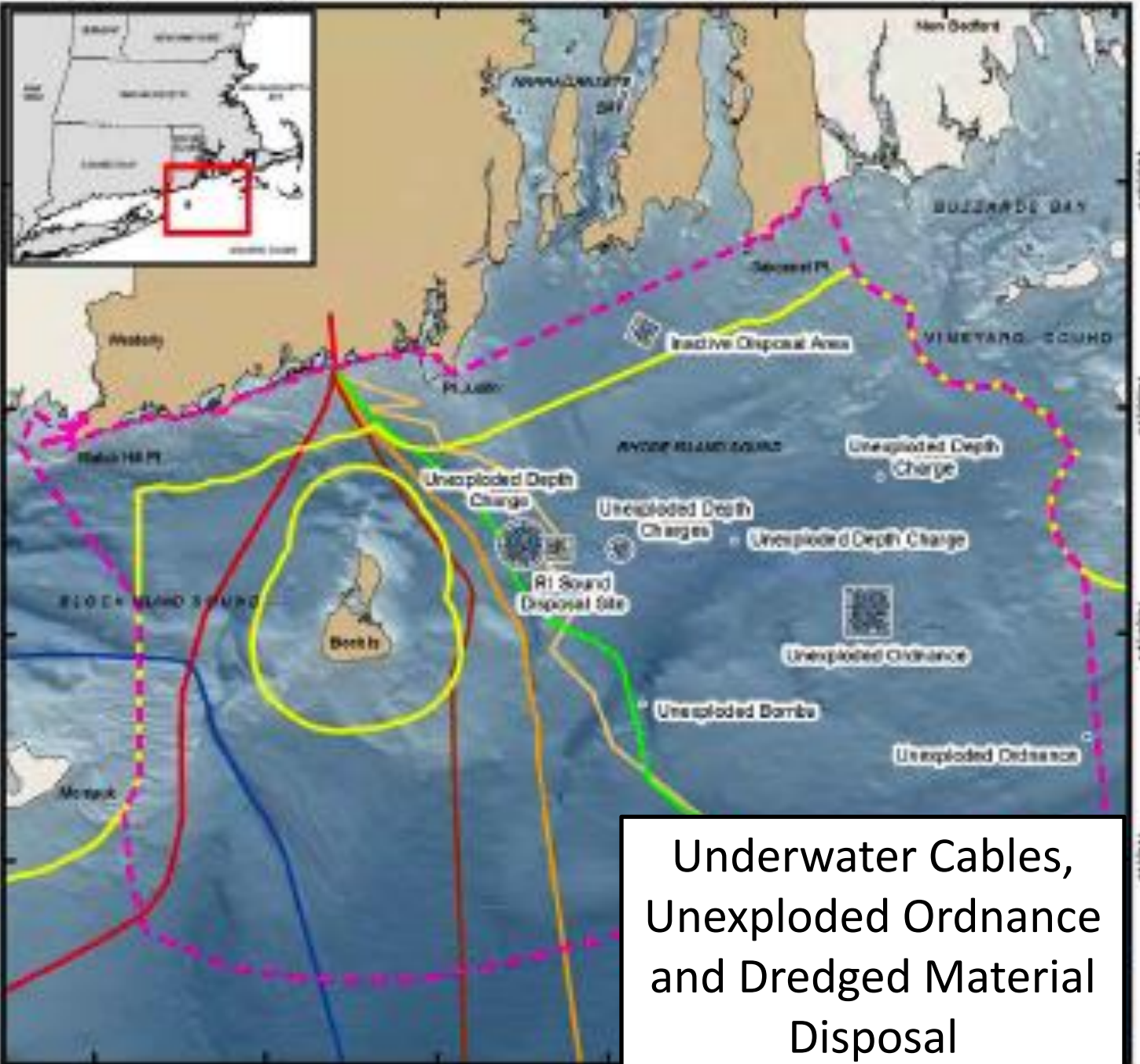
Note: All cables are also NOAA Electronic Navigational Charts cables

Coordinate System:  
Projection: NAD 83  
Units: Feet  
Datum: NAD83

Map Data Cited:  
State Routes: 1000, 10000, 100000  
SAMP Study Area: RI SAMP Database  
State Routes: 1000, 10000, 100000  
Datum: NAD83

For Project Designated information:  
http://www.dem.state.ri.us/ri\_samp

RI Project Map and Data Products:  
http://www.ri.gov/ri\_samp/ri\_samp\_products

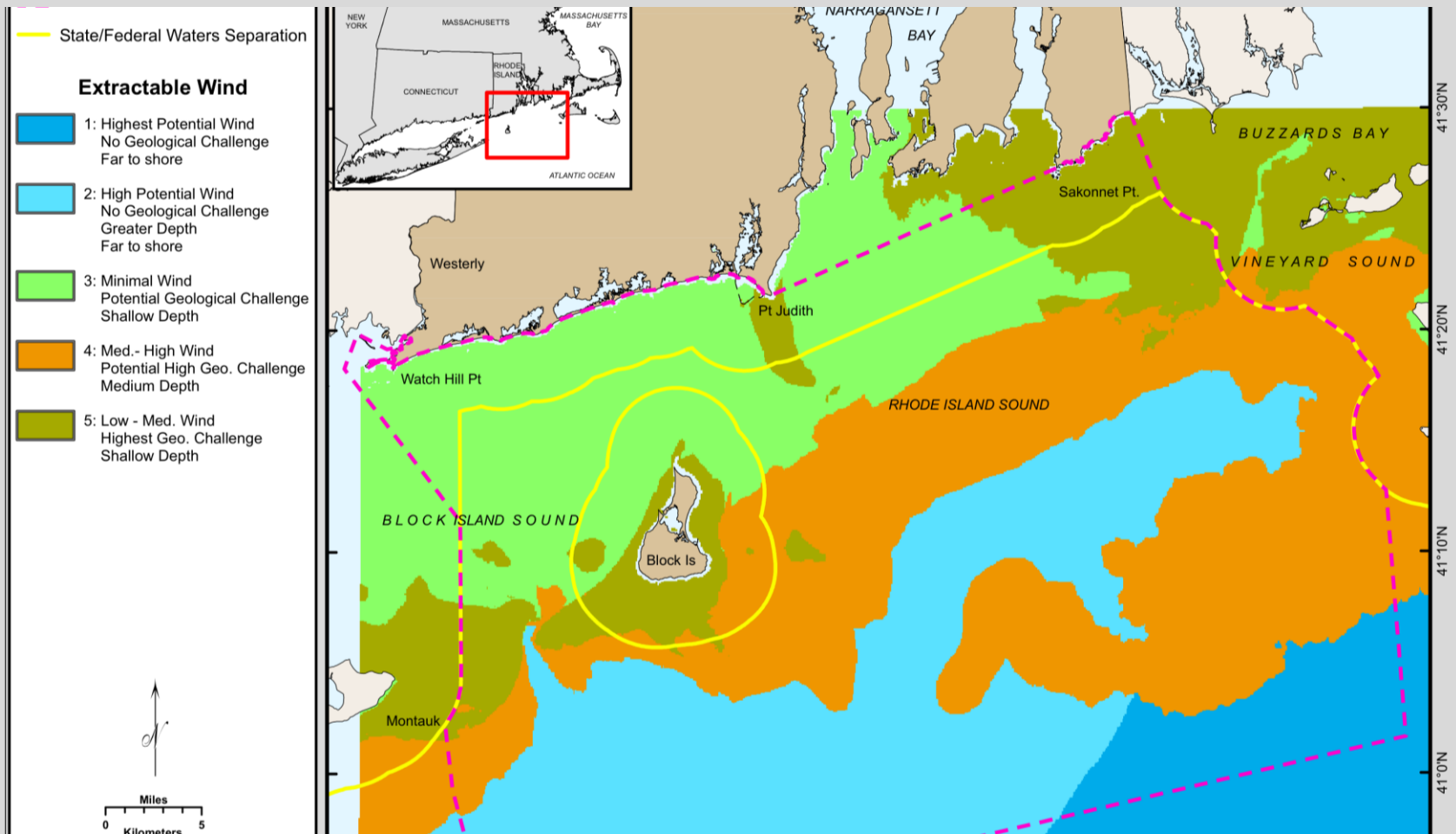


Underwater Cables,  
Unexploded Ordnance  
and Dredged Material  
Disposal



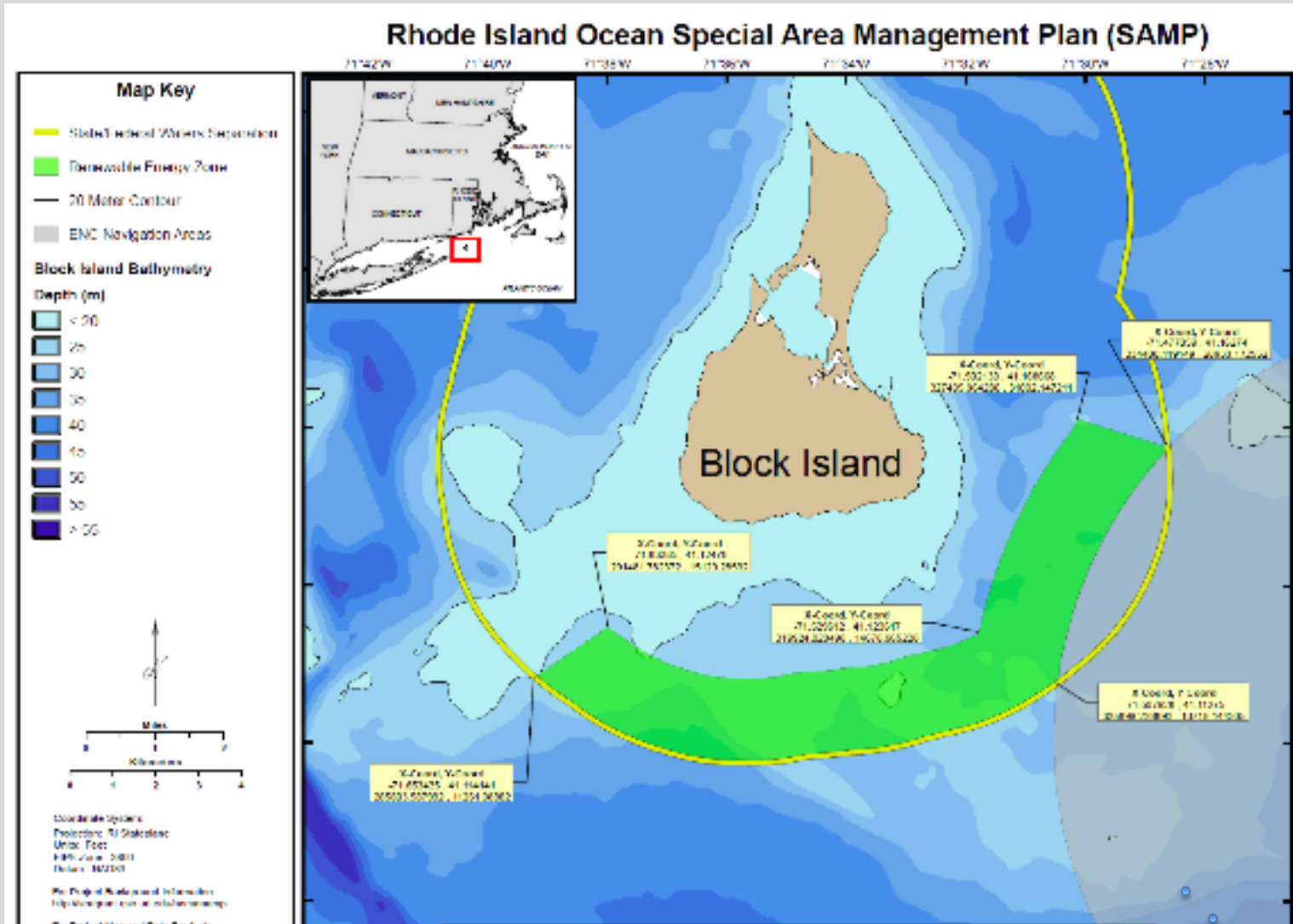
# SAMP Results

## Potential Areas to Extract Wind



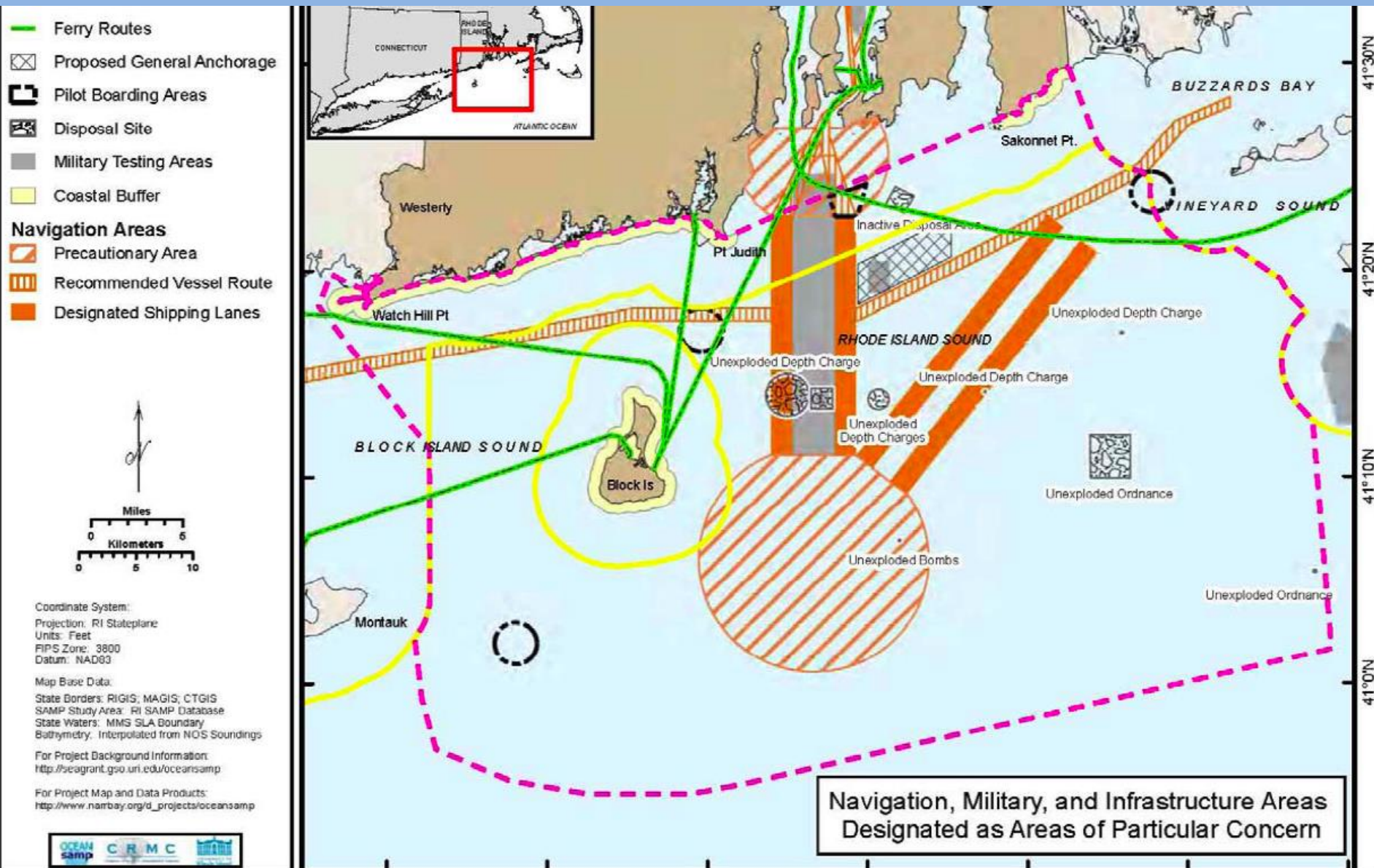
# SAMP Results

## Rhode Island Renewable Energy Area



# SAMP Results

## Areas of Particular Concern

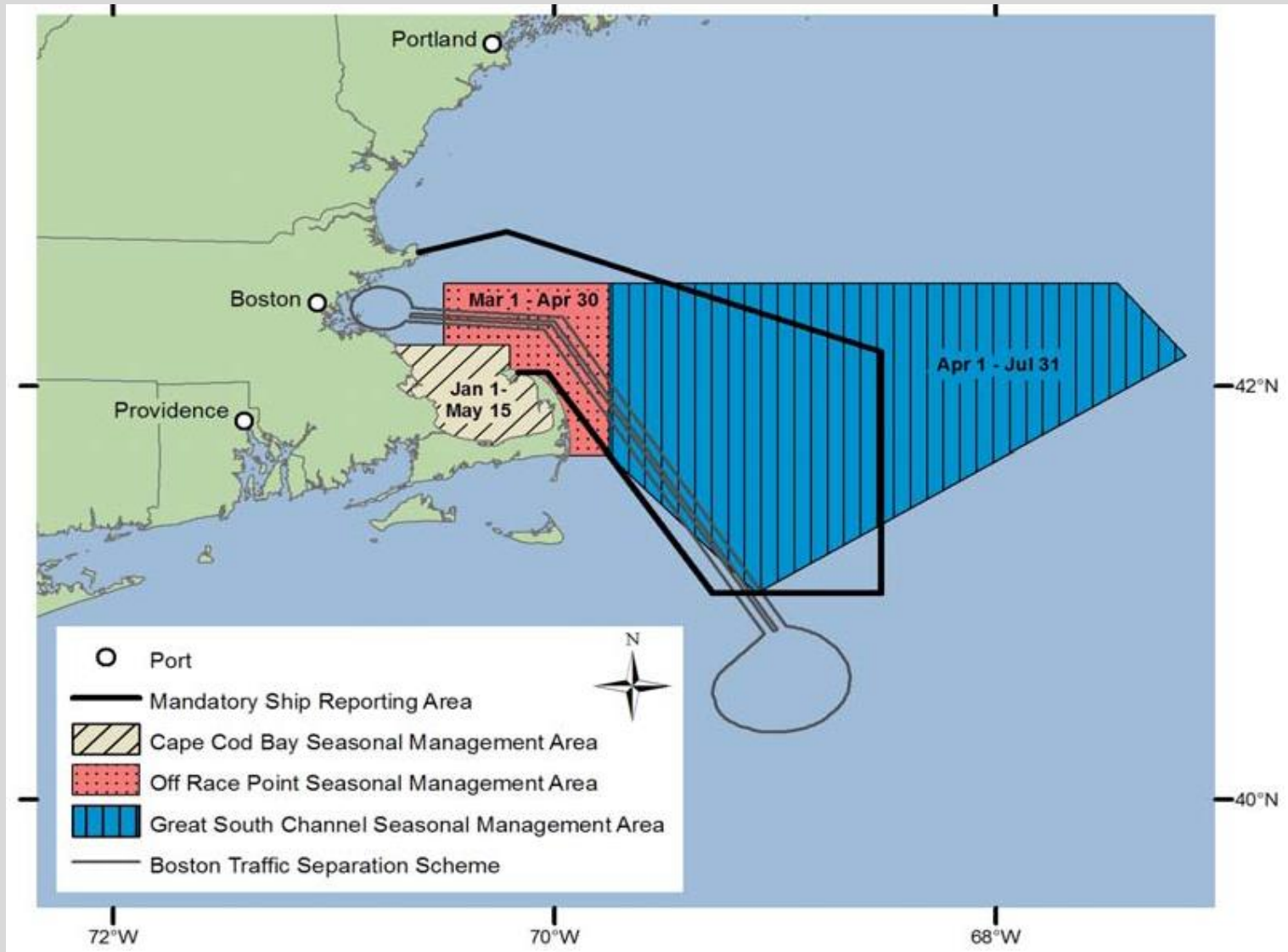




# Compliance Guide for Right Whale

## Ship Strike Reduction Rule (50 CFR 224.105)

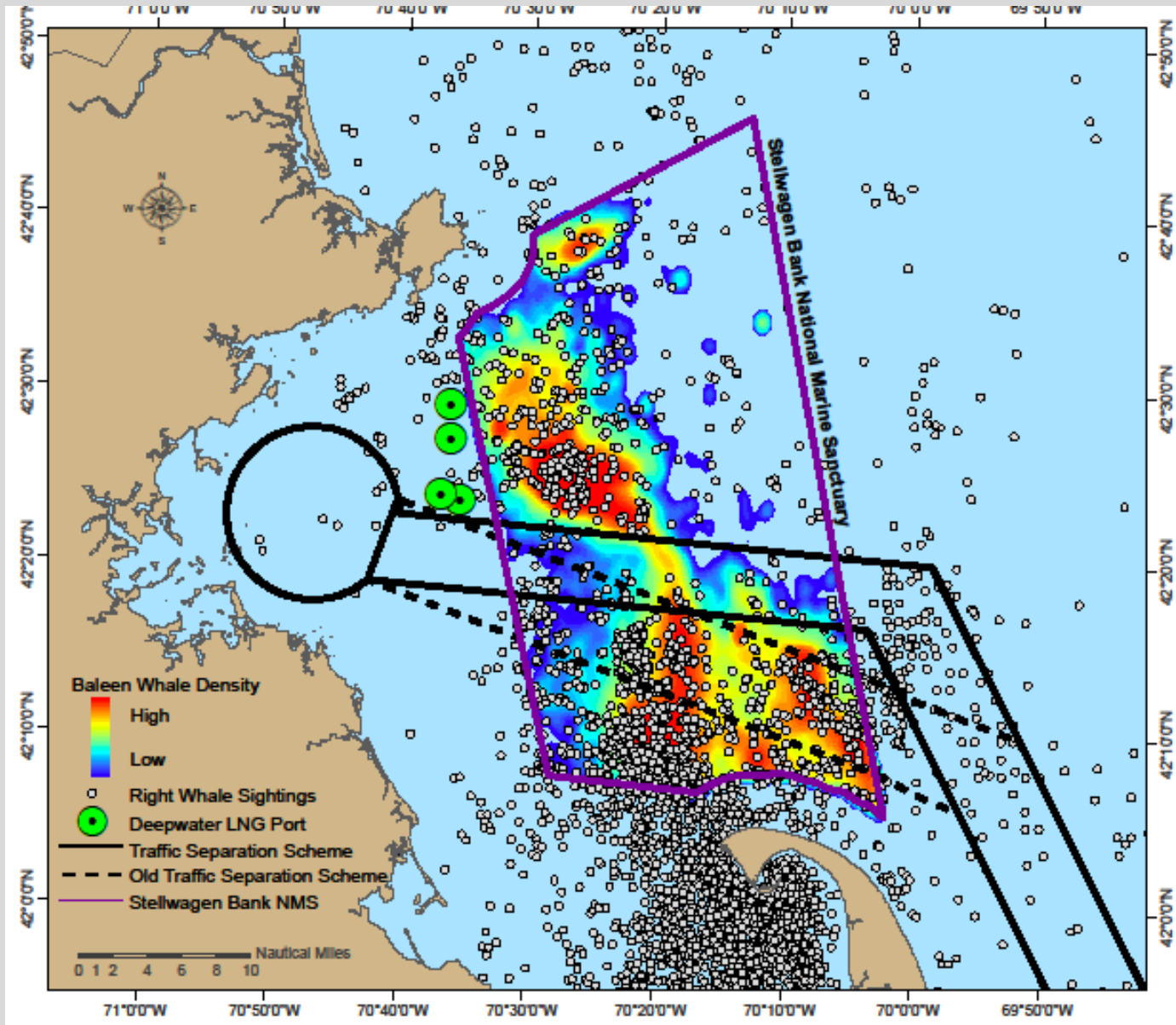
Slow to speeds of 10 knots or less in Seasonal Management Areas



# Ocean Economy



# Benefits of Smart Ocean Planning: Stellwagen Bank

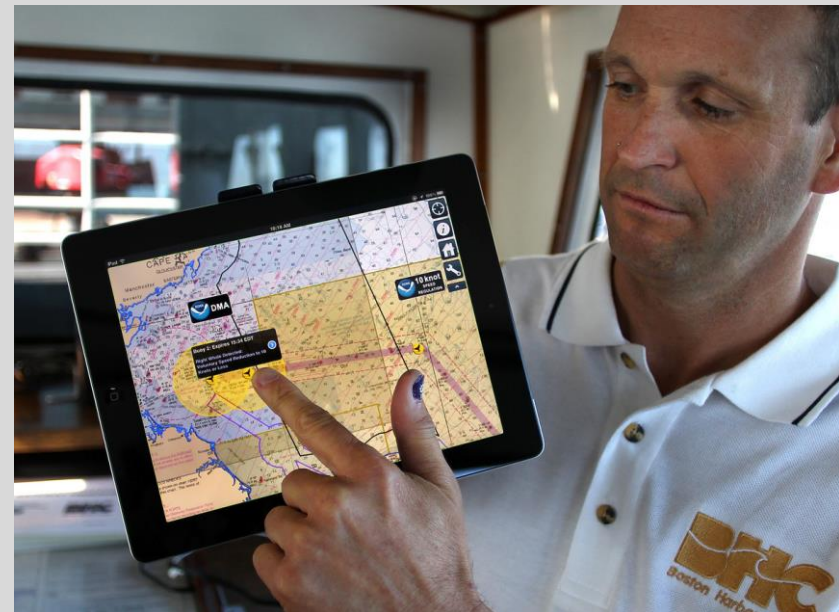


# Gateway Endeavor

## Boston Harbor support vessel



Captain  
Ronald Lee Hatch

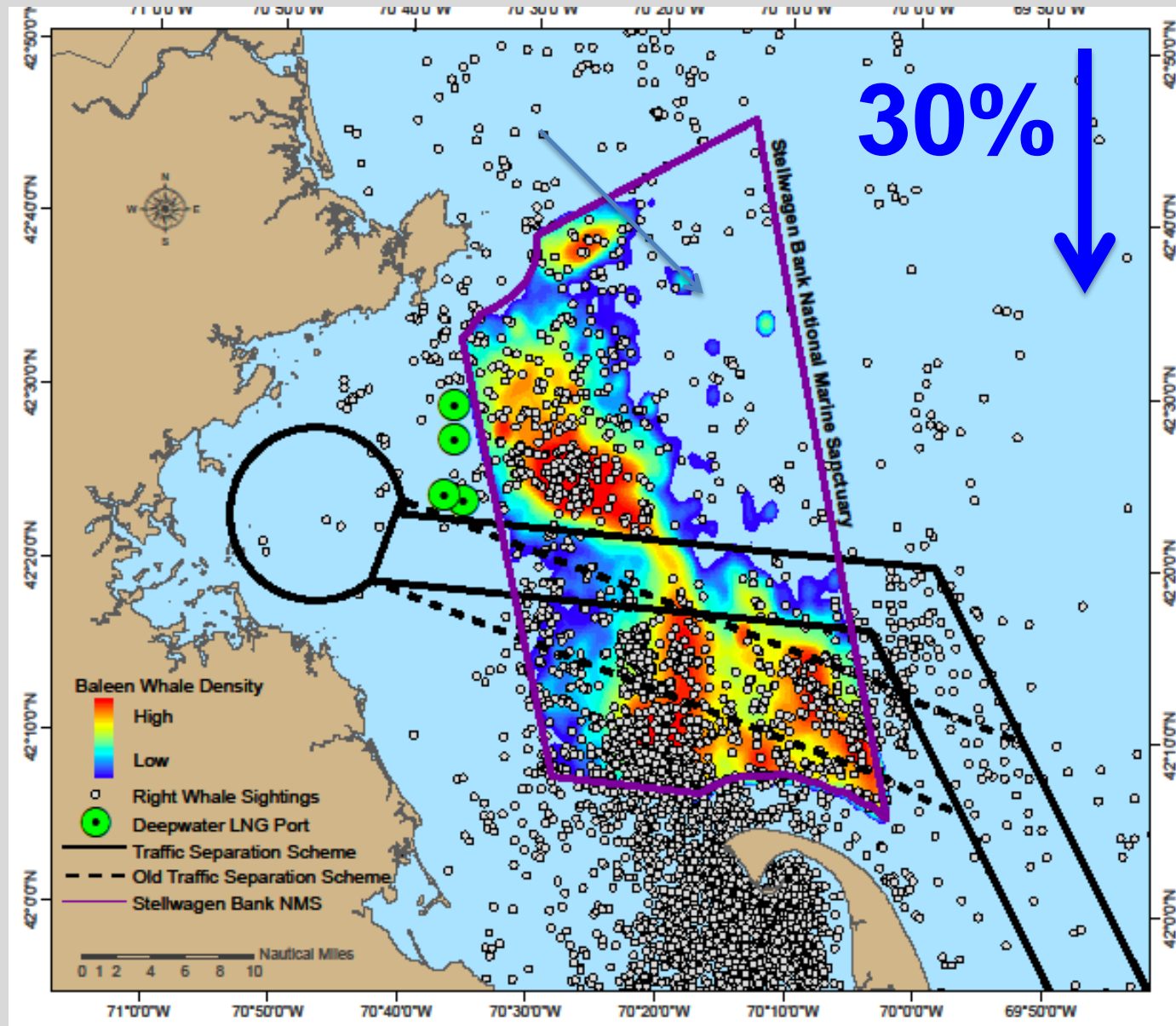




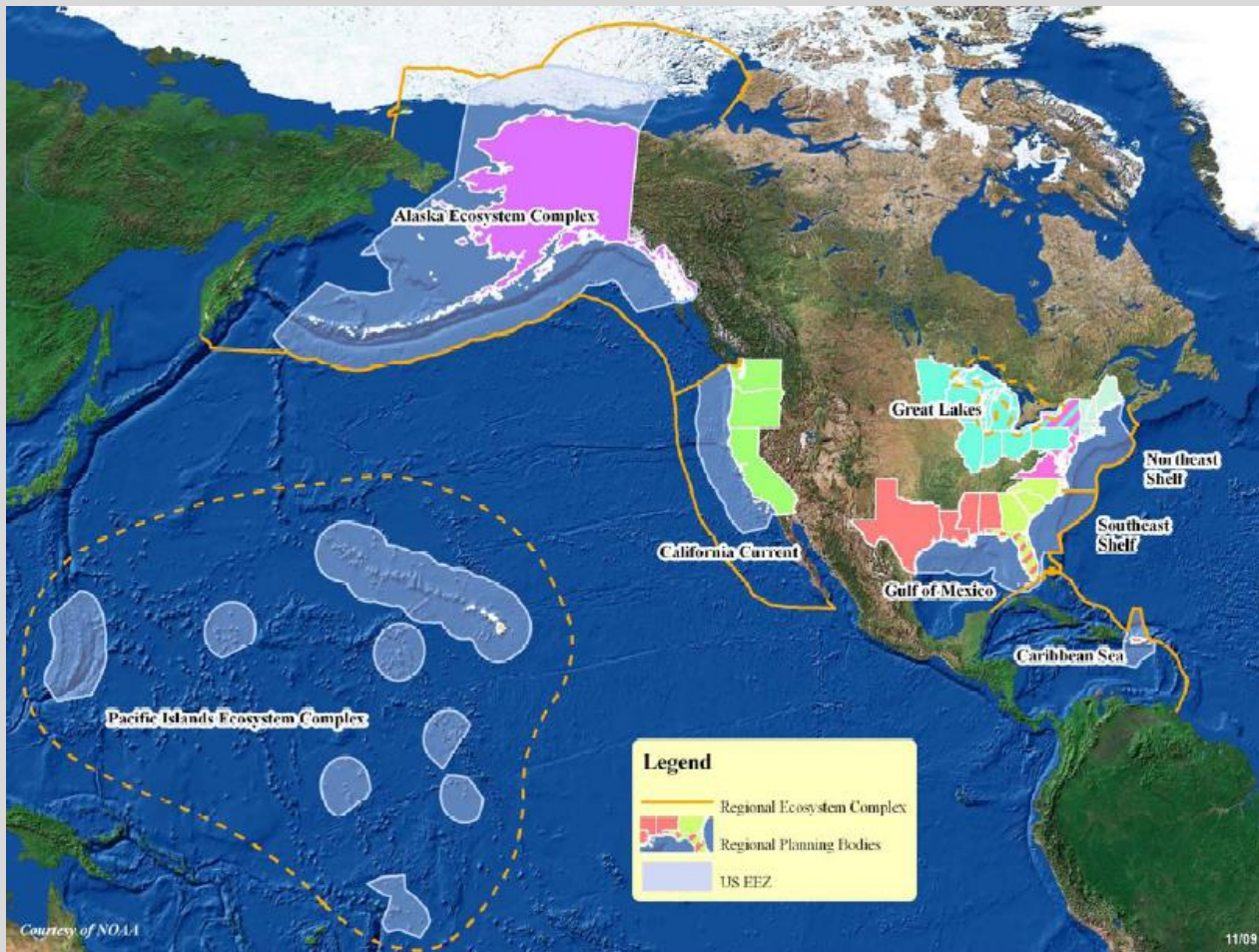
# Right Whale whale strike



# Benefits of Smart Ocean Planning: Stellwagen Bank



# Smart Ocean Planning Regions



# Regions where Smart Ocean Planning is underway



# Arctic Shipping Routes



